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Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the

application:

Listing of the Claims:

(Currently Amended) A field effect transistor, comprising:

a substrate having a recess in a surface thereof, the recess having a bottom

portion and substantially vertical sidewalls;

a gate dielectric layer disposed superjacent the bottom portion of the

recess, and adjacent the substantially vertical sidewalls, and superjacent a

portion of a top surface of the substrate;

a gate electrode completely overlying the gate dielectric layer; and

source/drain terminals disposed in the substrate in alignment with a pair

of laterally opposed gate electrode sidewalls, said gate electrode extending to a

less shallow depth within said substrate than a depth at which the source/drain

terminals are disposed;

wherein the source/drain terminals comprise an extension which extends

to a more shallow depth within the substrate than the source/drain terminals to

which it corresponds and extends downwardly, from approximately the surface

of the substrate, along the sidewalls of the recess, an entire innermost side of the

extension is adjacent to the vertical sidewalls of the recess, a portion of the gate

dielectric layer overlaying an innermost portion of the extension.

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2. (Previously Presented) The transistor of Claim 1, further

comprising a portion of the gate electrode that overlies the innermost portion of

the extension.

3. (Previously Presented) The transistor of Claim 2, wherein the gate

electrode conforms to a recessed channel.

4. (Currently Amended) A field effect transistor, comprising:

a substrate having a recess in a surface thereof, the recess having bottom

portion and tapered sidewalls, the tapered sidewall surfaces forming an obtuse

angle with respect to the bottom portions of the recess;

a gate dielectric layer disposed superjacent the bottom portion of the

recess, and adjacent the tapered sidewalls, and superjacent a portion of a top

surface of the substrate;

a gate electrode completely overlying the gate dielectric layer; and

source/drain terminals disposed in the substrate in alignment with a pair

of laterally opposed gate electrode sidewalls;

wherein the source/drain terminals comprise an extension which extends

to a more shallow depth within the substrate than the source/drain terminals to

which it corresponds and extends downwardly, from approximately the surface

of the substrate, along the sidewalls of the recess, an entire innermost side of the

extension is adjacent to the tapered sidewalls of the recess, a portion of the gate

dielectric layer overlaying an inner-most portion of the extension.

5. (Previously Presented) The transistor of Claim 4, wherein a portion of the

gate electrode overlies an innermost portion of the extension.

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6. (Previously Presented) The transistor of Claim 4, wherein the gate electrode conforms to a recessed channel.

7. (Currently Amended) A field effect transistor, comprising:

a substrate having a recess in a surface thereof, the recess having a curvilinear shape;

a gate dielectric layer disposed superjacent the curvilinear recess <u>and</u> superjacent a portion of a top surface of the substrate;

a gate electrode completely overlying the gate dielectric layer; and source/drain terminals disposed in the substrate in alignment with a pair of laterally opposed gate electrode sidewalls; and

wherein the source/drain terminals comprise an extension which extends to a more shallow depth within the substrate than the source/drain terminals to which it corresponds and extends downwardly, from approximately the surface of the substrate, along the curvilinear sides of the recess, a portion of the gate dielectric layer overlaying an inner-most portion of the extension.

- 8. (Previously Presented) The transistor of Claim 7, wherein the gate electrode conforms to a recessed channel.
- 9. (Previously Presented) The transistor of Claim 7, wherein the gate electrode conforms to a recessed channel.

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